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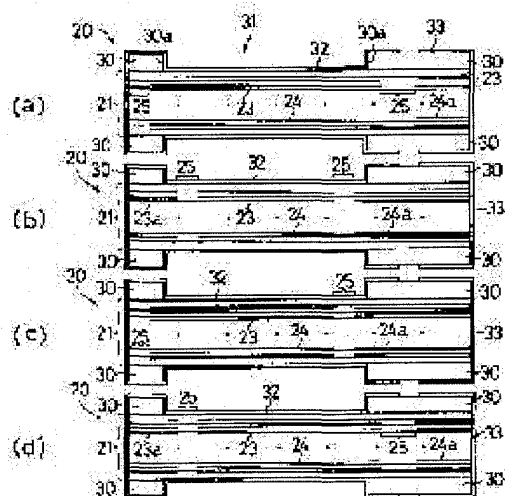
SAKURAI KOICHI

(54) PIEZOELECTRIC ELEMENT AND ITS MANUFACTURE

(57)Abstract:

PURPOSE: To provide a piezoelectric element and its manufacturing method which can surely prevent a defect like electrode continuity failure in the junction part of laminated green sheets.

CONSTITUTION: A piezoelectric element 20 consists of a piezoelectric active part 21 which is expanded and contracted by applying a voltage, substrate parts 30 which hold the active part 21 from both sides, outer electrodes 32, 33, etc., which are electrically connected with inner electrodes 23, 24 of the active part 21. The piezoelectric active part 21 is constituted by laminating many PZT sheets, and inner electrodes 23, 24, 24a are alternately formed between layers. The piezoelectric active parts 21 and the substrates 30 are closely brought into contact with each other, and then hardened to be in a unified body by baking. Viewing from the thickness direction of the piezoelectric element 20, a region where the inner electrodes 23, 24, 24a on both sides of PZT sheet turning to a piezoelectric layer mutually overlap, and a region where they do not overlap are formed. The region 25 where they do not overlap is out of the end portion 30a of the substrate part 30.



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